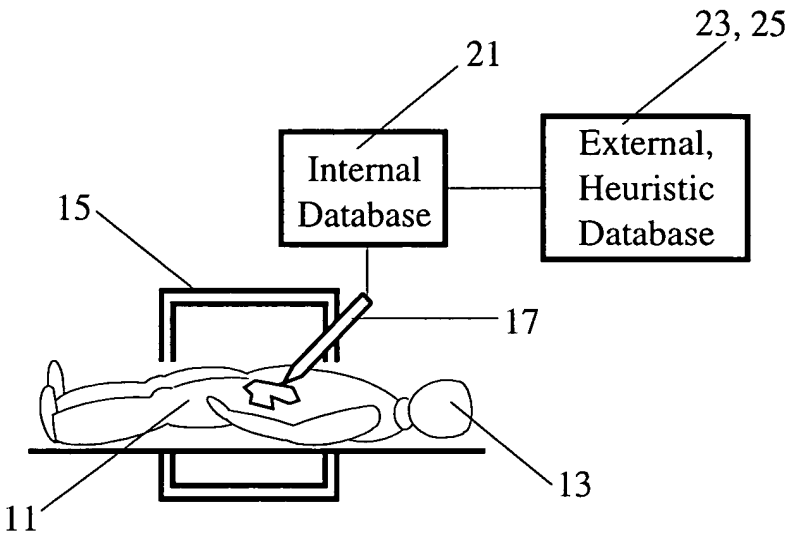
23, 25
21
Internal Database
External, Heuristic Database
15
17
13
11

FIG. 1

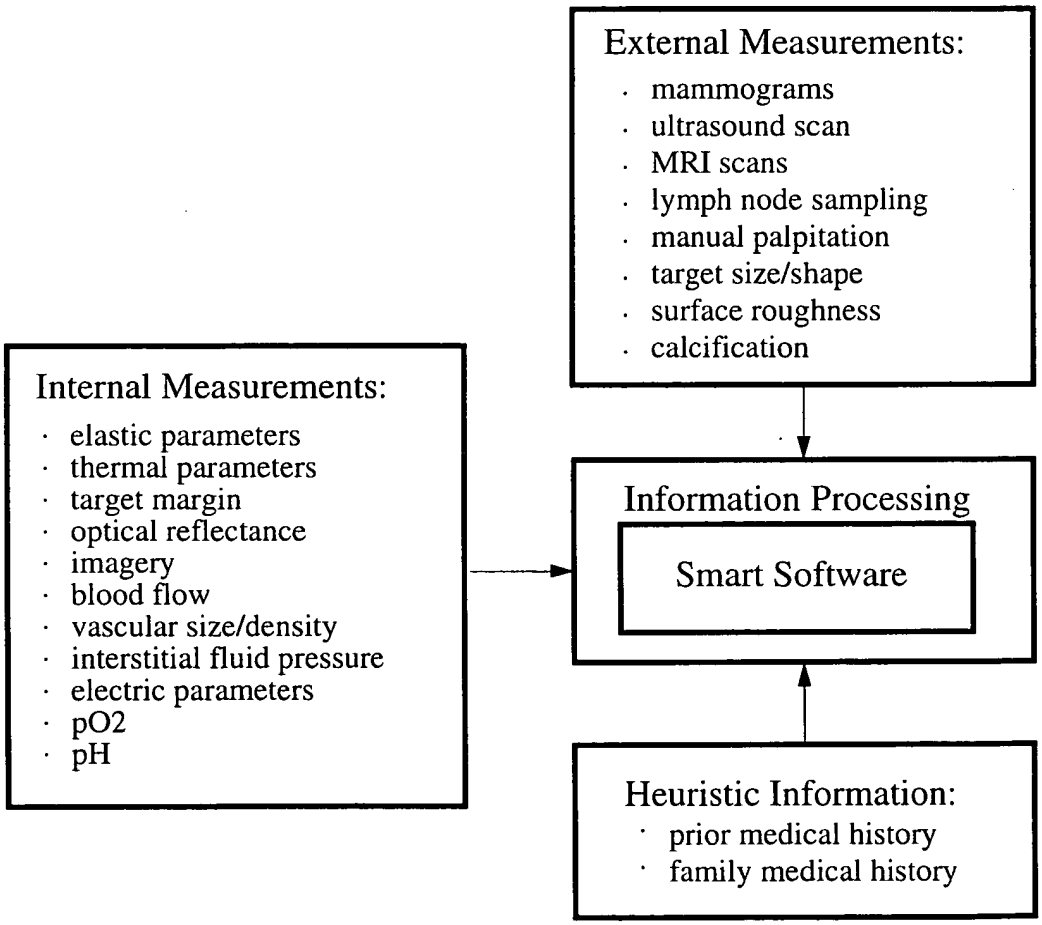
External Measurements:
· mammograms
· ultrasound scan
· MRI scans
· lymph node sampling
· manual palpitation
· target size/shape
· surface roughness
· calcification
Internal Measurements:
· elastic parameters
· thermal parameters
· target margin
· optical reflectance
· imagery
· blood flow
· vascular size/density
· interstitial fluid pressure
· electric parameters
· pO2
· pH
Information Processing
Smart Software
Heuristic Information:
· prior medical history
· family medical history

FIG. 2

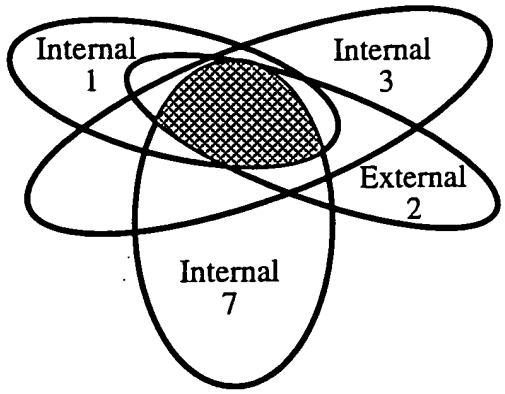
Internal
1
Internal
3
External
2
Internal
7

FIG. 3

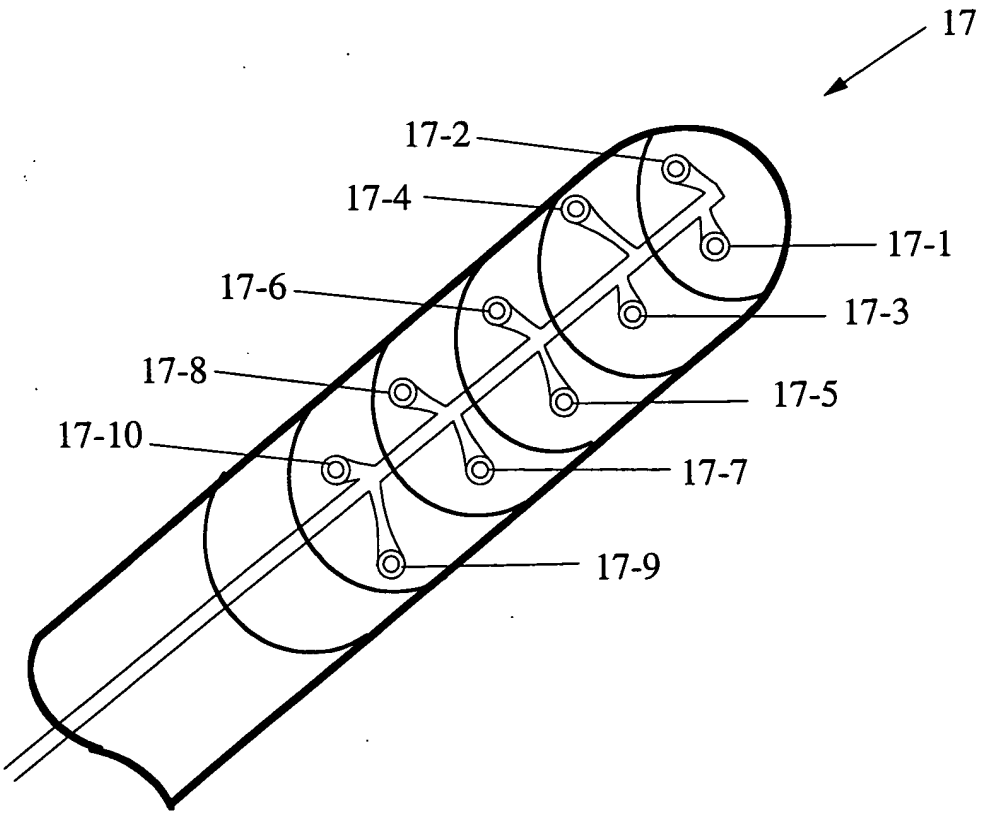
17
17-2
17-4
17-1
17-6
17-3
17-8
17-5
17-10
17-7
17-9

FIG. 5

Tumor size is 'very large'

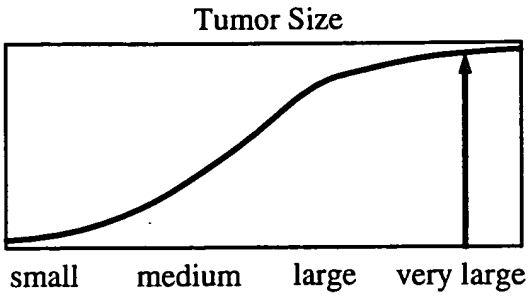

FIG. 4A

Tumor spiculation is 'very sharp'

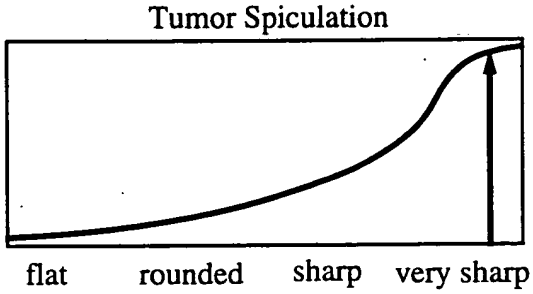

FIG. 4B

Tumor 3D shape is 'moderately concave'

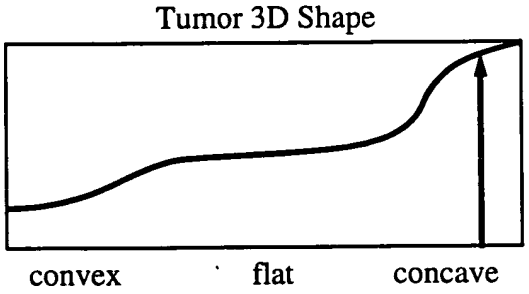

FIG. 4C

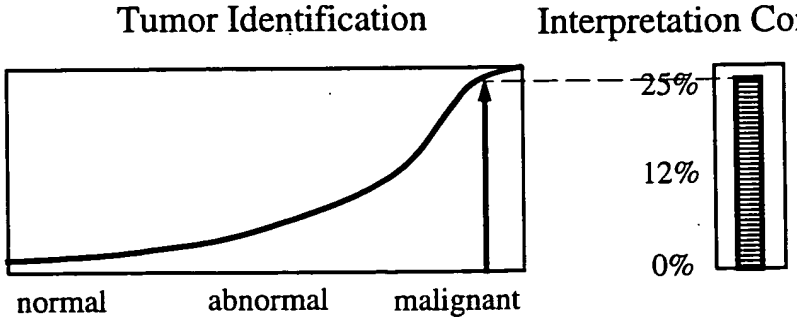

FIG. 4D

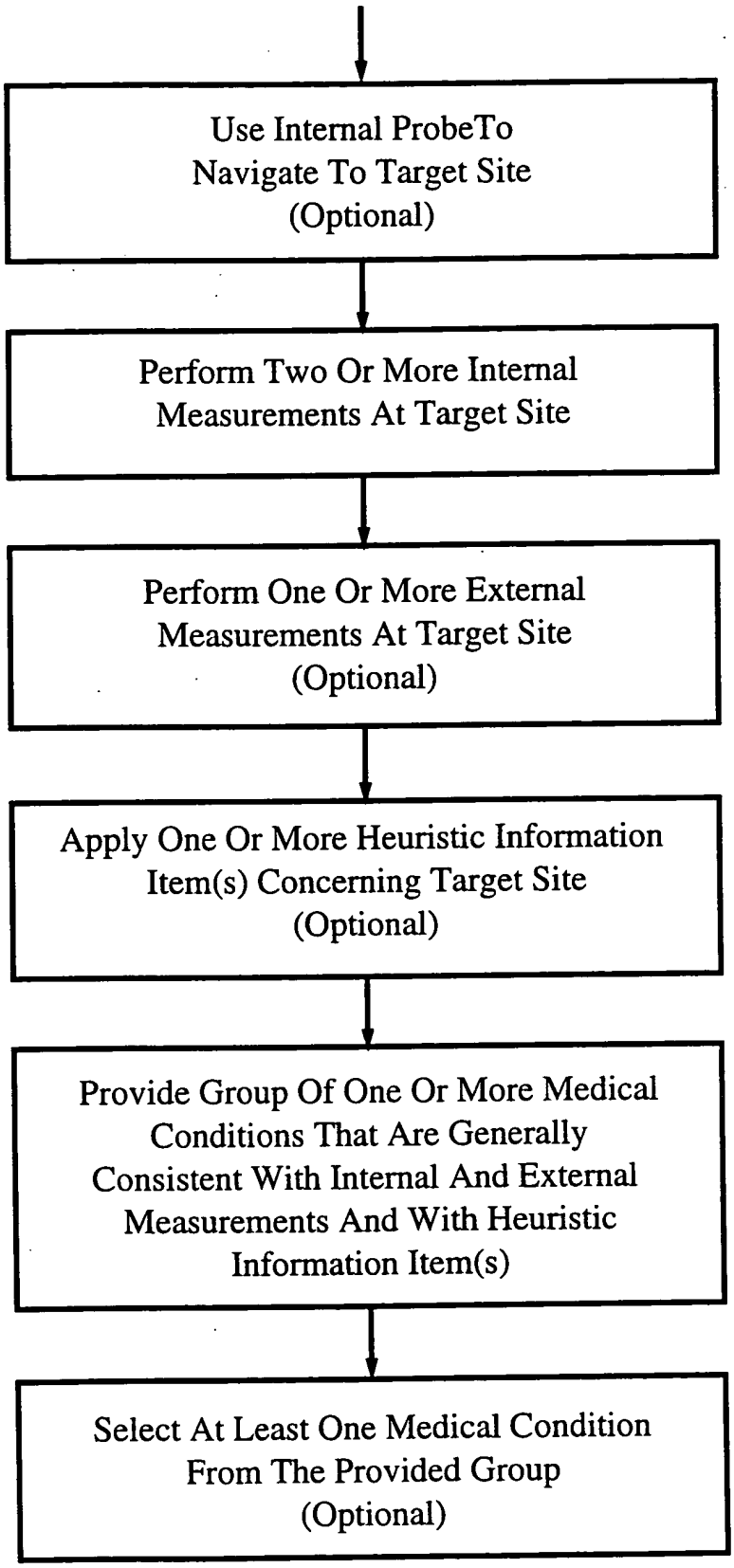
Use Internal ProbeTo Navigate To Target Site (Optional)
Perform Two Or More Internal Measurements At Target Site
Perform One Or More External Measurements At Target Site (Optional)
Apply One Or More Heuristic Information Item(s) Concerning Target Site (Optional)
Provide Group Of One Or More Medical Conditions That Are Generally Consistent With Internal And External Measurements And With Heuristic Information Item(s)
Select At Least One Medical Condition From The Provided Group (Optional)

FIG. 6

008390 "30623960

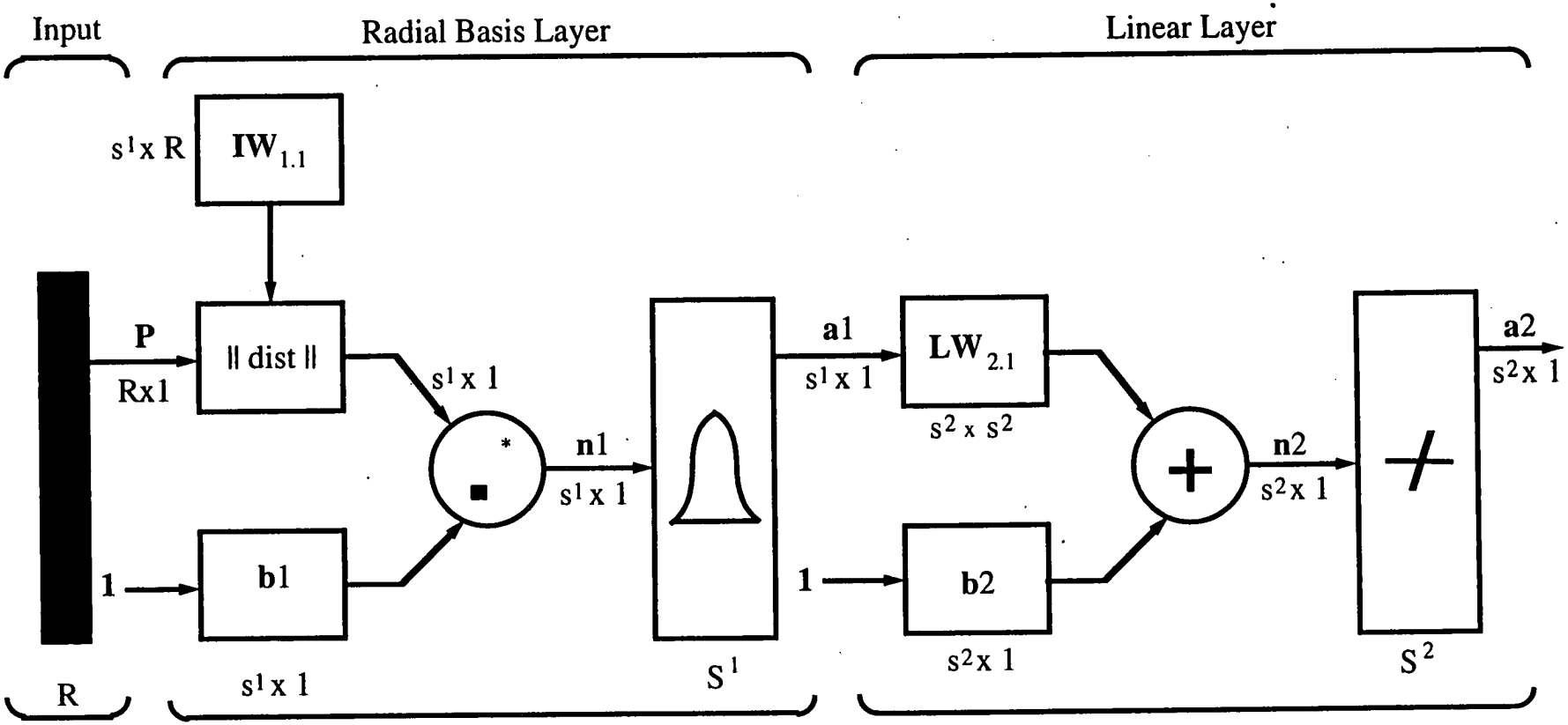

FIG. 7

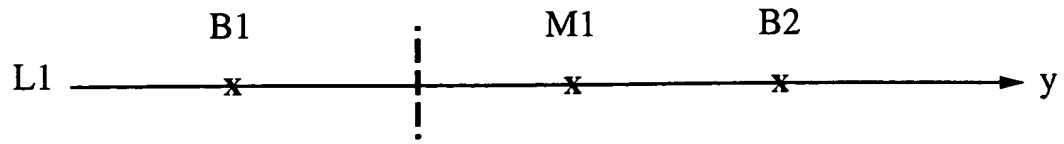

FIG. 8A

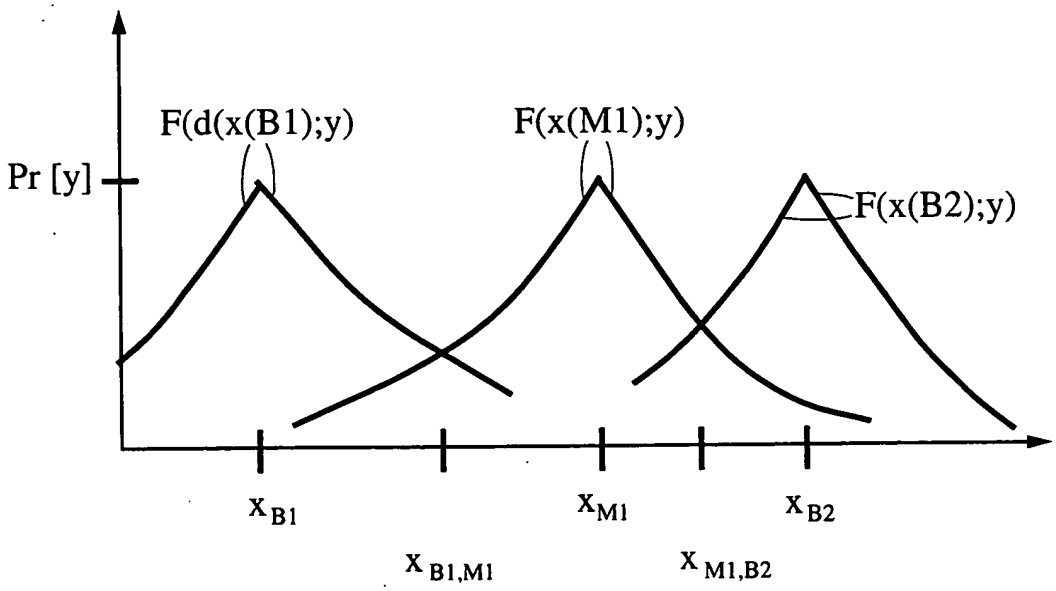

FIG. 8B